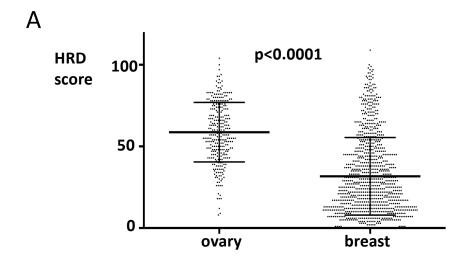
# **Supplementary Data**

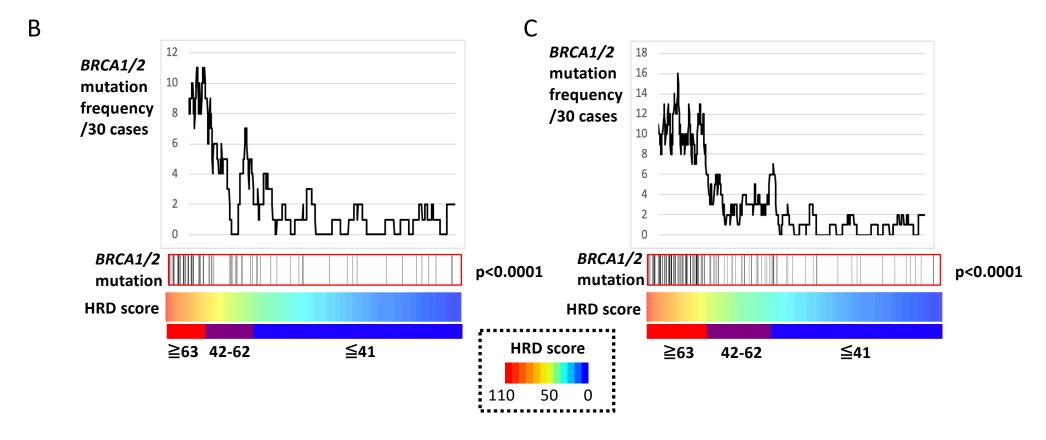
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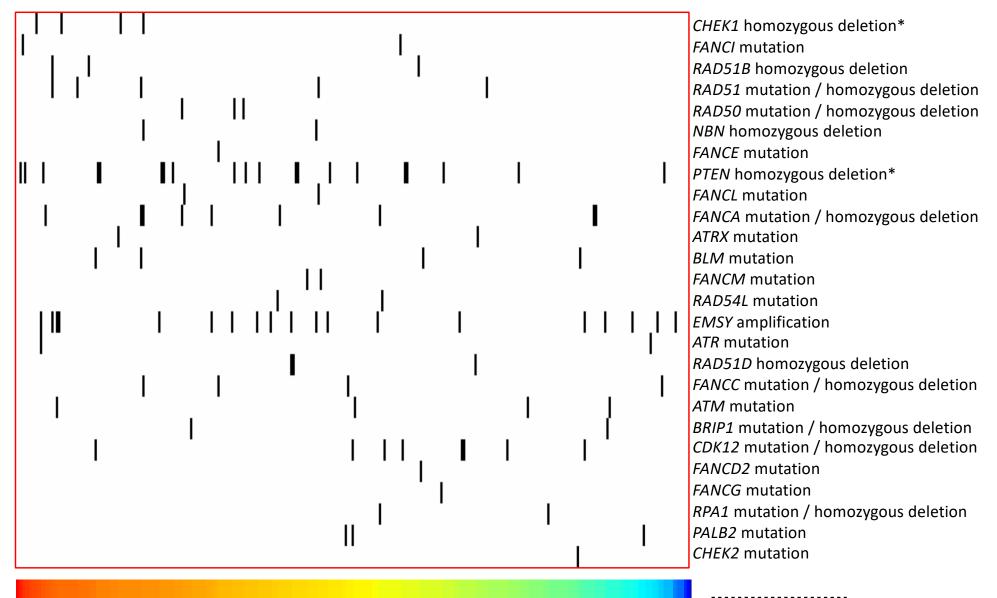
Homologous recombination deficiency status-based classification of high-grade serous ovarian carcinoma

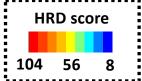
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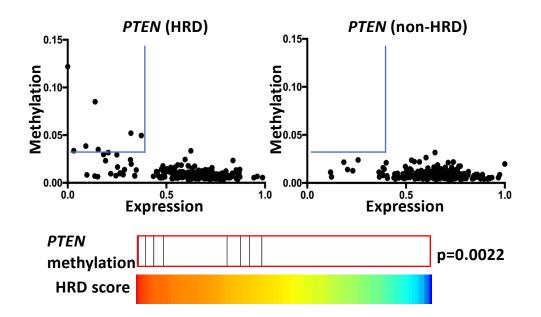
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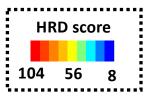


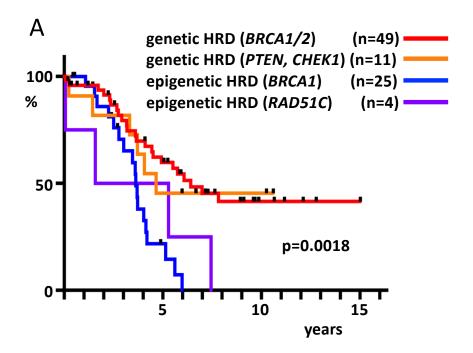


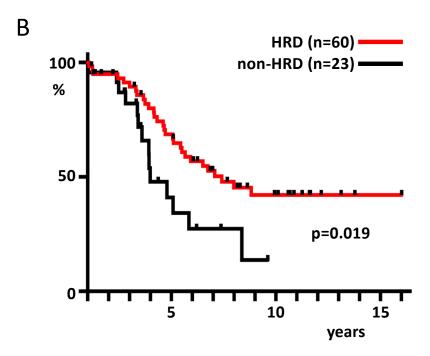












#### Supplementary Figure Legends

Supplementary Figure 1. Analysis of the breast cancer dataset. A) Comparison of HRD scores. TCGA dataset samples with both exome sequencing and SNP array data (ovary: n = 296; breast: n = 955). B) Distribution of breast cancer BRCA1/2 mutation cases. The upper graph shows the frequency of BRCA mutation cases; TCGA data were sorted by HRD scores using window sliding for 30 cases. The black bars in the central box represent the BRCA mutation cases; the higher the HRD score, the more enriched the BRCA mutations. Sections of HRD scores  $\geq 63$ , 42 - 62, and  $41 \geq$  are shown by colored bars. B) In all, 1251 cases (breast cancer: 955 cases, ovarian cancer: 296 cases) were sorted by HRD score to show the distribution of BRCA mutation cases. BRCA1/2 mutation cases have a bimodal distribution, with an apparent cutoff  $\geq 42$  as well as  $\geq 63$ .

Supplementary Figure 2. Relationship of HRD scores and HRR pathway gene alterations other than *BRCA1/2*. Gene alterations are sorted by average HRD scores. Only *CHEK1* homozygous deletions and *PTEN* homozygous deletions were significantly enriched in the cases with high HRD scores (\*; p=0.0038 and 0.035, respectively).

Supplementary Figure 3. Analysis of *PTEN* methylation. X-axis: average values of three *PTEN* mRNA expression probes normalized to 0-1. Y-axis:  $\beta$  value of cg21573601. *PTEN* methylation cases are surrounded by a blue line (upper-left region). The frequency of *PTEN* methylation differs substantially between HRD cases (left) and non-HRD cases (right);  $\beta$  values are generally low.

Supplementary Figure 4. A) Comparison of HRD cases in OS. Genetic HRD cases were divided into those with *BRCA1/2* mutations and those with *CHEK1* or *PTEN* homozygous deletions; epigenetic HRD cases were divided into *BRCA1* methylation cases and *RAD51C* methylation cases. B) Cases with genetic factors (*BRCA1/2* methylations, *CHEK1* homozygous deletions, and *PTEN* homozygous deletions) were divided into HRD and non-HRD groups for comparison of OS.

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